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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,361	02/26/2004	Diana Yanakiev	81079897 FMC 1644 PUS	2360
	7590 08/21/200 HMAN P.C./FGTL	EXAMINER		
1000 TOWN CENTER 22ND FLOOR			BEHNCKE, CHRISTINE M	
SOUTHFIELD, MI 48075-1238			ART UNIT	PAPER NUMBER
			3661	
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			08/21/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/708,361	YANAKIEV, DIANA			
Office Action Summary	Examiner	Art Unit			
	CHRISTINE M. BEHNCKE	3661			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on <u>08 Mar</u> 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This  3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-5,7-16,18-23,27 and 28 is/are pendiday of the above claim(s) is/are withdray 5) ☐ Claim(s) 1-5 and 7-13 is/are allowed. 6) ☐ Claim(s) 14,22,23,27 and 28 is/are rejected. 7) ☐ Claim(s) 15, 16, 18 - 21 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original sheet (s).  The oath or declaration is objected to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

#### **DETAILED ACTION**

This office action is in response to the Amendment and Remarks filed 5/8/2008, in which claims 1-5, 7-16, 18-23, 27 and 28 were presented for examination.

### Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14, 22, 23, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito, US 5,835,878.

(Claim 14) Saito describes a method for controlling a vehicle using nonlinear error-based control comprising: determining a current value indicative of a vehicle speed (column 11, lines 17-23); determining a first speed error, the first speed error being a difference between a target speed and the current value of the speed (column 11, lines 17-23); and applying a first gain to the first speed error, thereby producing a speed control system desired acceleration, the first gain being a non-decreasing function of the absolute value of the first error (column 11, lines 24-41).

(Claim 22) Saito describes a vehicle comprising: at least one torque producing device including an engine (column 1, lines 5-13); a throttle operable to control the flow

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of air to the engine (column 1, lines 5-13); at least one sensor configured to measure a vehicle parameter and to output signals related to the measured parameter (column 10, lines 49-53); and a controller configured to receive signals from the at least one sensor (MPU 101), determine a first error, and determine a vehicle request, thereby facilitating control of the at least one torque producing device (acceleration deviation 21), the first error being a difference between a target value of the vehicle parameter and a measured value of the vehicle parameter (step 21 and 21a), the vehicle request being a nonlinear, increasing function of the first error usable to determine an angle of the throttle (step 22).

(Claim 23) Saito further describes wherein the vehicle request is used to determine an amount of torque requested from the at least one torque producing device (column 1, lines 5-13).

(Claim 27) Saito describes a vehicle comprising: at least one torque producing device including an engine (column 1, lines 5-13); an electric power source operable to provide electricity to the motor (column 7, lines 41-55); at least one sensor configured to measure a vehicle parameter and to output signals related to the measured parameter (column 10, lines 49-53); and a controller configured to receive signals from the at least one sensor, determine a first error, and determine a vehicle request, thereby facilitating control of the at least one torque producing device (acceleration deviation 21), the first error being a difference between a target value of the vehicle parameter and a measured value of the vehicle parameter (step 21 and 21a), the vehicle request being a

nonlinear, increasing function of the first error usable to determine the amount of electricity provided to the motor (step 22).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito in view of Mianzo, US 6,347,680.

Saito describes a vehicle comprising: at least one torque producing device including an engine (column 1, lines 5-13); at least one sensor configured to measure a vehicle parameter and to output signals related to the measured parameter (column 10, lines 49-53); and a controller configured to receive signals from the at least one sensor (MPU 101), determine a first error, and determine a vehicle request, thereby facilitating control of the at least one torque producing device (acceleration deviation 21), the first error being a difference between a target value of the vehicle parameter and a measured value of the vehicle parameter (step 21 and 21a), the vehicle request being a nonlinear, increasing function of the first error usable to control the output of the engine (step 22). Saito does not describe the engine being a diesel engine or the intended use of determining a fueling rate of the engine. However, Mianzo teaches the control of a throttle for a desired engine speed, wherein Mianzo teaches the application of the throttle control system to a electronically controlled diesel engine (column 3, lines 9-15),

and wherein by controlling the throttle of the engine determines the fueling rate of the engine to control the output speed (column 4, lines 26-34). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Saito with the teachings of Mianzo because Saito suggests the invention may be adapted to other power systems other than by electric motor (column 1, lines 5-13) and it was well known that controlling the fueling rate of the engine is merely another means of controlling the output speed.

## Allowable Subject Matter

Claims 1-5 and 7-13 are allowed.

Claims 15, 16, 18 - 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTINE M. BEHNCKE whose telephone number is (571)272-8103. The examiner can normally be reached on 8:30 am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. M. B./ Examiner, Art Unit 3661

/Thomas G. Black/ Supervisory Patent Examiner, Art Unit 3661